ELSEVIER

www.elsevier.nl/locate/jorganchem

Journal of Organometallic Chemistry 596 (2000) 264–266

Journal of Organometallic Chemistry

Contents of Volume 596

Special volume: Dedicated to Professor F. Albert Cotton on the occasion of his 70th birthday.

Foreword
J.P. Fackler, Jr. 1

Communications

Reaction of nickelocene with 1,3-dimesitylimidazolium chloride
C.D. Abernethy, Alan H., Cowley, R.A. Jones 3

Synthesis of perfluoropropyl and perfluorobutyl germanium by direct fluorination: a potential general synthesis for perfluorinated metal alkyls
R.P. Callahan, C.R. Youngstrom, R.J. Lagow 6

Regular Papers

1,1′-Bis(diphenylthiophosphoryl)ferrocene complexes of gold(I) and gold(III)
M.C. Gimeno, P.G. Jones, A. Laguna, C. Sarroca 10

Chain polymeric complexes of some first-series transition-metal ions with *N*,*N*,*N*′,*N*′-tetra-acetyl-1,4-diaminobutane
D.M.L. Goodgame, M. Goodgame, D.A. Grachvogel, I. Hussain, D.J. Williams 16

The synthesis and structural characterization of phenyl tris(3-*t*-butylpyrazolyl)borato alkyl complexes of magnesium and zinc, [PhTp^{But}]MgR (R = Me, Et) and [PhTp^{But}]ZnMe
J.L. Kisko, T. Fillebeen, T. Hascall, G. Parkin 22

Reactions of the dirhenium(II) complexes $Re_2X_4(\mu\text{-dppm})_2$ (X = Cl, Br; dppm = $Ph_2PCH_2PPh_2$) with isocyanides: Part XX. Oxidation of the complexes $Re_2X_4(\mu\text{-dppm})_2(L)$ (X = Cl or Br; dppm = $Ph_2PCH_2PPh_2$; L = *t*-BuNC, XylNC or CO) to the edge-sharing bioctahedral dirhenium(III) cations $[Re_2(\mu\text{-X})_2(\mu\text{-dppm})_2X_3(L)]^+$
J. Chantler, D.A. Kort, P.E. Fanwick, R.A. Walton 27

Synthesis, characterization and crystal structures of some tungsten and triosmium carbonyl complexes with monopyridyl and dipyridyl azo ligands
W.-Y. Wong, S.-H. Cheung, S.-M. Lee, S.-Y. Leung. 36

Synthesis, structure, and reactivity of osmium π-thiophene complexes
A. Birri, J.W. Steed, D.A. Tocher. 46

Photoluminescent macrocyclic Pd(II) and Pt(II) dimeric complexes with $Ph_2P-C\equiv C-PPh_2$ spacer
D. Xu, H.J. Murfee, W.E. van der Veer, B. Hong 53

Preparation and structure of the 17-electron (η^5-C_5R_5)Mo(OH)$_2$(dppe) (R = Me, Et) organometallic compounds containing two *gem*-terminal hydroxide ligands
D. Morales, B. Pleune, R. Poli, P. Richard 64

Synthesis and structural characterization of Group 14 complexes containing two {9-[2-(dimethylamino)ethyl]fluorenyl-} ligands and a unique coupling product
R.A. Kemp, L. Chen, I. Guzei, A.L. Rheingold 70

The metal–metal bond in the dibenzotetramethyltetraaza[14]annulene–ruthenium dinuclear complex: a structural, magnetic, and theoretical analysis
J. Hesschenbrouck, E. Solari, R. Scopelliti, C. Floriani, N. Re. 77

Structures and properties of complexes [MCl(C_5Me_5)(N ^ S)](PF_6), M = Rh, Ir, with N ^ S = 1-methyl-2-(alkylthiomethyl)-1*H*-benzimidazole ligands
M. Albrecht, T. Scheiring, T. Sixt, W. Kaim 84

Structural and electronic properties of (2,2-*trans*)-dirhodium(II) tetrakis(*N*-phenylacetamidate)
C.T. Eagle, D.G. Farrar, G.N. Holder, W.T. Pennington, R.D. Bailey 90

Mixed pyrazolylborate/cyclopentadienyl derivatives of divalent lanthanides: synthesis and structure of $(Tp^{'Bu,Me})Yb(C_5H_4R)$ (R = H, $SiMe_3$)
G.M. Ferrence, R. McDonald, M. Morissette, J. Takats 95

Coordinations of vinyltetrahydrothiophene to a trirhenium cluster
R.D. Adams, O.-S. Kwon, J.L. Perrin 102

Bimetallic and cationic aluminum with N_3O_2 chelate ligands
S. Liu, M.-A. Munoz-Hernandez, D.A. Atwood 109

Synthesis and structural characterization of chiral thiacrowns: the crystal and molecular structure of (*R,R,R*)-2,6,10-trimethyl-1,5,9-trithiacyclododecane
R.D. Adams, J.L. Perrin, J.A. Queisser, R.D. Rogers 115

Synthesis, structure, and reactivities of the Ru–Co heterobimetallic complex. Molecular structures of $Cp^*Ru(CO)_2(\mu_2\text{-}CO)Co(CO)_3$, $Cp^*Ru(\mu_2\text{-}CO)_2(\mu_2\text{-}dppm)Co(CO)_2$, $Cp^*Ru(CNBu^t)(CO)(\mu_2\text{-}CO)Co(CO)_3$, and $Cp^*(CO)Ru\{\eta^2{:}\eta^4\text{-}\mu_2\text{-}C(Tol)CHC(Tol)CH\}Co(CO)_2$ ($Cp^* = \eta^5\text{-}C_5Me_5$, $dppm = Ph_2PCH_2PPh_2$, $Tol = C_6H_4Me\text{-}4$)
H. Matsuzaka, K. Ichikawa, T. Ishioka, H. Sato, T. Okubo, T. Ishii, M. Yamashita, M. Kondo, S. Kitagawa. 121

Studies of tetrakis(trifluoroacetate) dirhodium: Part 4. Solventless synthesis of $Rh_2(O_2CCF_3)_2(CO)_4$ combined with $Rh_2(O_2CCF_3)_4$, a compound with infinite chains of rhodium atoms
F.A. Cotton, E.V. Dikarev, M.A. Petrukhina 130

Synthesis, characterization, and X-ray crystallography of a series of ditungsten complexes with bis(diphenylphosphino)amine
J.L. Eglin, L.T. Smith, R.J. Staples, E.J. Valente, J.D. Zubkowski. 136

Triphenylphosphine-substituted *N,N*-di-*iso*-propylcarbamate of ruthenium(II) and its reactions with carbon monoxide
D.B. Dell'Amico, F. Calderazzo, L. Labella, F. Marchetti 144

Ru-σ-alkynyl compounds of tetraanilinopyridinato-diruthenium(II,III) core: synthesis and structural characterization
G. Zou, J.C. Alvarez, T. Ren 152

Molecular modeling of dimetal systems: Part 4. Dirhenium bonds
J. Bacsa, J.C.A. Boeyens 159

Mercury(II) and gold(III) derivatives of 2-phenyl pyridines and 2-phenyl-4-(methylcarboxylato)quinoline
R.V. Parish, J.P. Wright, R.G. Pritchard. 165

Synthesis and characterization of [*trans*-di(μ-acetato)(μ-bis(diphenylphosphino)methylamine)bis(pyridine)dimolybdenum(II)]-bis(tetrafluoroborate) and derivatives
W.-M. Xue, F.E. Kühn, G. Zhang, E. Herdtweck 177

Femtosecond infrared studies of ligand rearrangement reactions: silyl hydride products from Group 6 carbonyls
K.T. Kotz, H. Yang, P.T. Snee, C.K. Payne, C.B. Harris. 183

Preparation of ruthenium silanethiolato complexes and their reactions with sulfur dioxide; possible models for the activation of SO_2 in the homogeneously catalyzed Claus reaction
I. Kovacs, C. Pearson, A. Shaver 193

Systematic formation of mixed-metal high-nuclearity clusters: the synthesis and characterisation of $[Os_6(CO)_{17}(Au_2dppm)]$ and $[Os_6(CO)_{17}(Au_2dppm)\{Ru(\eta^5\text{-}C_5H_5)\}_2]$ ($dppm = Ph_2PCH_2PPh_2$)
Z. Akhter, A.J. Edwards, J.F. Gallagher, J. Lewis, P.R. Raithby, G.P. Shields 204

Density functional calculations of dinuclear organometallic carbonyl complexes. Part I: metal–metal and metal–CO bond energies
T.A. Barckholtz, B.E. Bursten. 212

The preparation, molecular structure and catalytic relevance of $Ti(OSiPh_3)_4$ and $Ti(OGePh_3)_4$
B.F.G. Johnson, M.C. Klunduk, C.M. Martin, G. Sankar, S.J. Teate, J.M. Thomas 221

Synthesis and X-ray structures of some Group 6 metal carbonyl bis(2-pyridyl)formamidine complexes
P.-Y. Yang, F.-C. Chang, M.-C. Suen, J.-D. Chen, T.-C. Keng, J.-C. Wang. 226

Synthesis, structure and properties of cycloruthenated complexes: crystal structure of mono-chloro-(η^6-*p*-cymene)-{(phenylazo)phenyl}ruthenium(II)
R.K. Rath, S.G. Valavi, K. Geetha, A.R. Chakravarty 232

Raman spectroscopic investigations of dinuclear gold ylide complexes; further relationships of Au–Au bond lengths versus Au–Au stretching frequencies
T.F. Carlson, J.P. Fackler, Jr. 237

The first organometallic derivative of 11β-ethynylestradiol, a potential high-affinity marker for the estrogen receptor
D. Osella, G. Cavigiolio, M. Vincenti, A. Vessières, I. Laios, G. Leclercq, E. Napolitano, R. Fiaschi, G. Jaouen 242

Photo-assisted formation of a chelating diphos ligand from PPh_3 and a cyclometallated $[P(C_6H_4)(C_6H_5)_2]^-$ ligand. Crystal structure of $Pd\{\eta^2\text{-}o\text{-}[P(C_6H_5)_2]_2(C_6H_4)\}Br_2$
F. Estevan, A. García-Bernabé, P. Lahuerta, M. Sanaú, M.A. Ubeda, J.R. Galán-Mascarós 248

Formation of a Pt_1Sn_1(niggliite)–silica xerogel nanocomposite using a PtSn (1:1) organometallic precursor
J.P. Carpenter, C.M. Lukehart, S.R. Stock 252

Author Index of Volume 596 257
Subject Index of Volume 596 259
Contents of Volume 596 264